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Math 6 Unit B



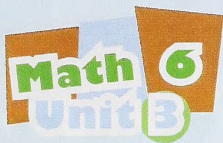
Quizzes and Tests

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Math 6 Learn EveryWare – Unit 3 Quizzes & Tests
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Math 6 Unit 3

Quiz Lesson 1



Identifying Angles

For 1 – 2: Estimate the measure of the given angle.

1.



2.



For 3 – 4: Sketch an angle with the given measure.

3. 135°

4. 45°

For 5 – 6: Classify each angle as acute, obtuse, right, or straight.

5.



6.



Math

6

Unit 3

Quiz
Lesson 2



**Measuring and
Creating Angles**

For 1 – 2: Find the measure of each angle.

1.



2.

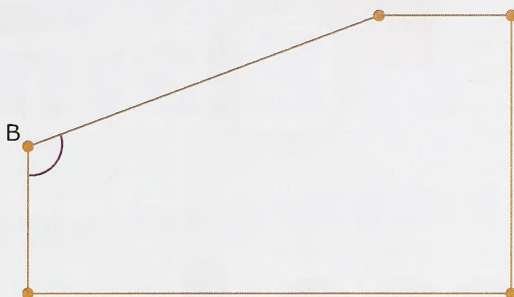


For 3 – 4: Find the measure of the indicated angle in each figure.

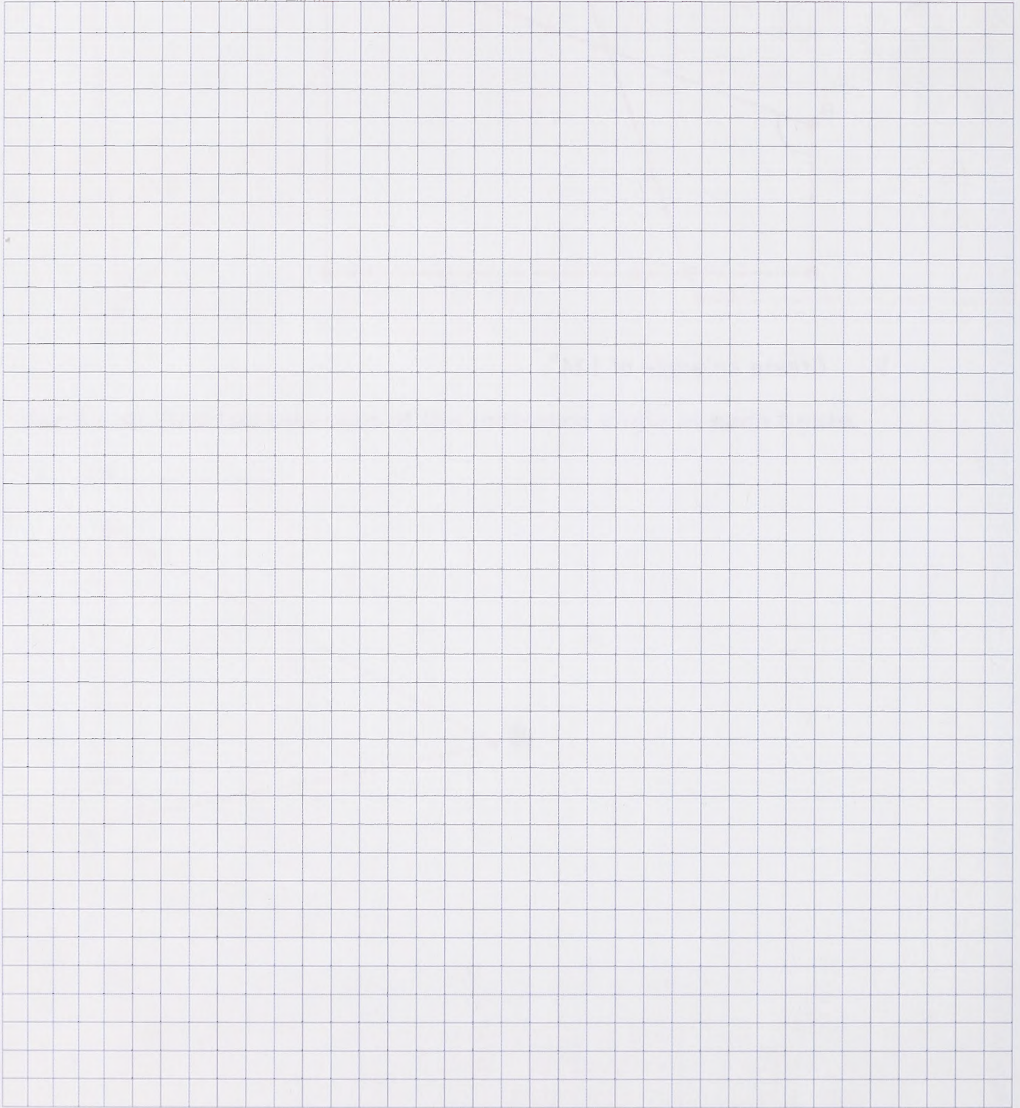
3. $\angle A$ _____



4. $\angle B$ _____



5. Create an angle of 124° .



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Unit 3

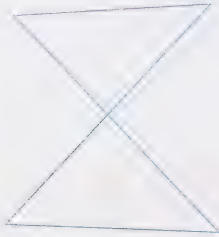
Quiz
Lesson 3



Polygons

For 1 – 2: Write “polygon” or “not a polygon” for each figure.

1.



2.

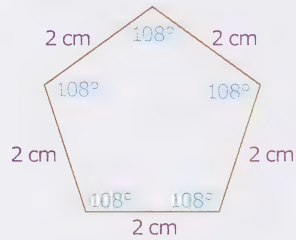


For 3 – 4: Write “regular” or “irregular” for each polygon.

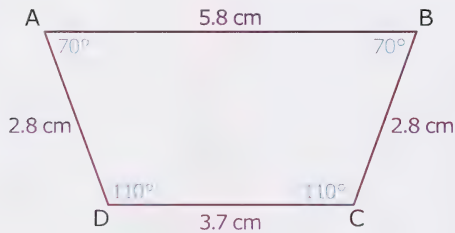
3.



4.



5. List the congruent sides and angles in the given figure.



Math
Unit 3

Quiz
Lesson 4



Classifying
Triangles

For 1 – 3: Classify each triangle in two ways.

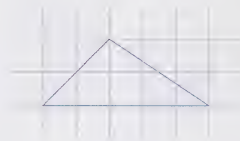
1.



2.



3.



For 4 – 5: Use a protractor and centimetre ruler.

4. Draw a scalene acute triangle.

5. Draw an isosceles right triangle.

Math
Unit 3

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Quiz
Lesson 5



**Interior Angles
of Polygons**

For 1 – 3: Find the missing angle.

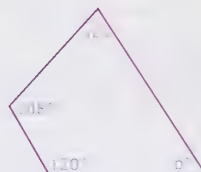
1.



2.



3.



For 4 – 5: Write an equation and solve to find the missing angle.

4.



5.



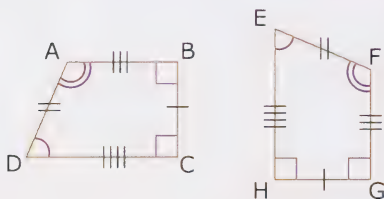
Math **6**
Unit 3

Quiz
Lesson 6



Congruent
Polygons

For 1 – 3: Use the following figures.



1. Name the congruent sides.
2. Name the congruent angles.
3. Why are the figures congruent?

For 4 – 5: Use the following figures.



4. Name the congruent sides.
5. Name the congruent angles.

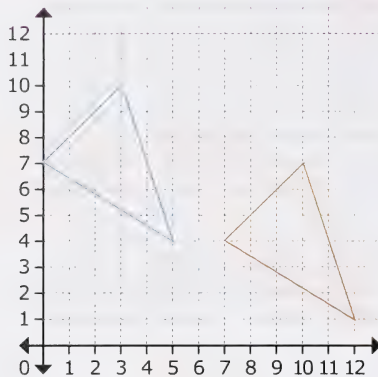
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Unit 3

Quiz
Lesson 7



**Transformations
on a Coordinate
Plane**

For 1 – 3: Use the following transformation. The coordinates of the pre-image are given



Pre-image

(7, 4)

(10, 7)

(12, 1)

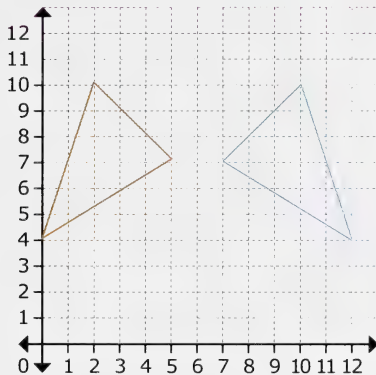
1. What type of transformation is being performed?

2. Which vertex of the image corresponds to the vertex (12, 1) on the pre-image?

3. Which vertex of the image corresponds to the vertex (7, 4) on the pre-image?

Lesson 7: Transformations on a Coordinate Plane

For 4 – 6: Use the following transformation. The coordinates of the pre-image are given



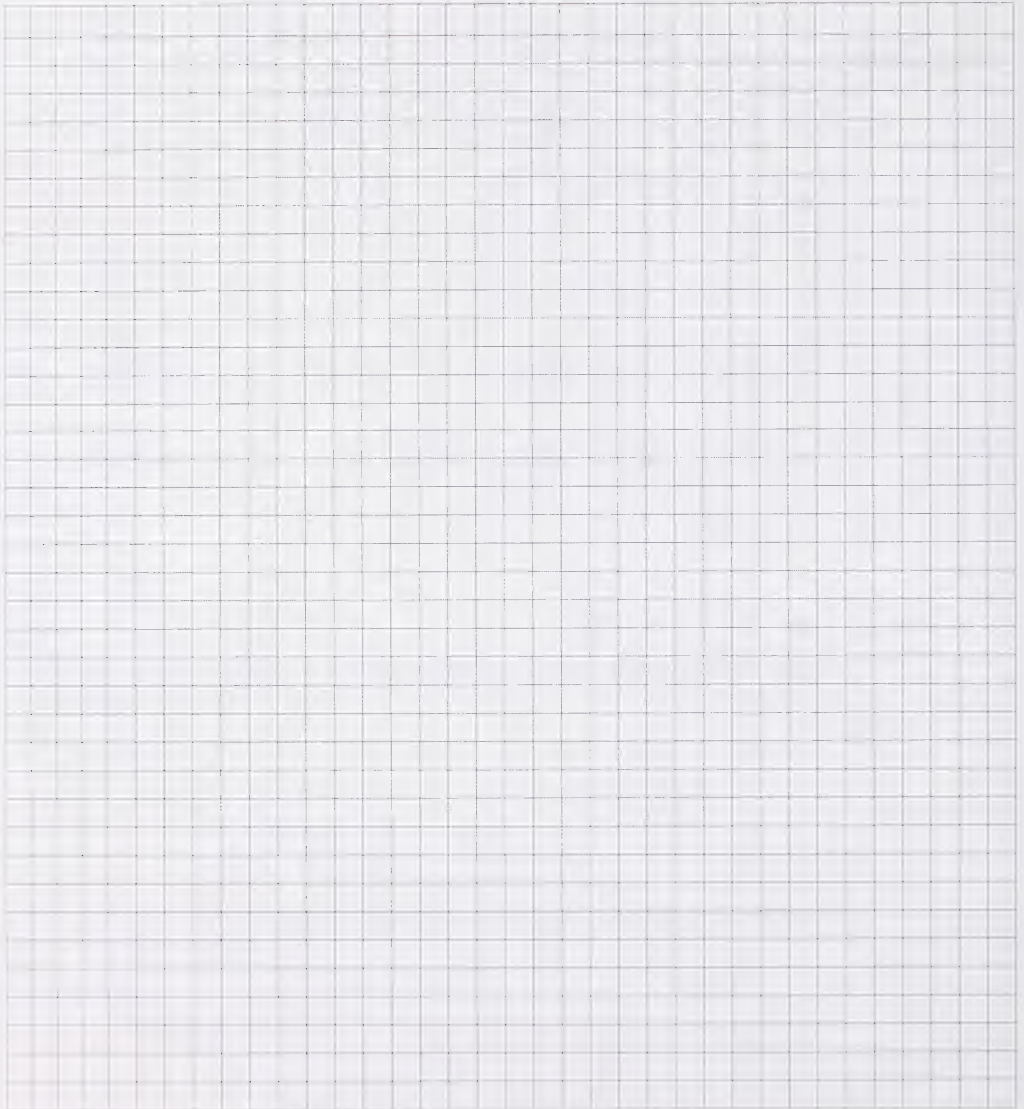
Pre-image

 $(0, 4)$

(2, 10)

(5, 7)

4. What type of transformation is performed?
5. Which vertex of the image corresponds to the vertex $(2, 10)$ on the pre-image?
6. Draw the line of reflection on the graph.



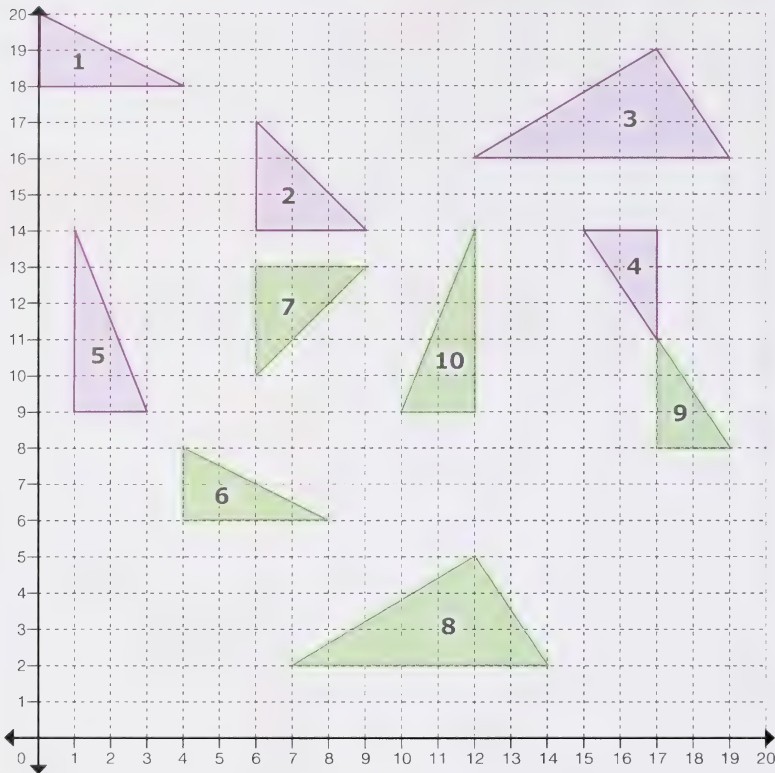
Math **6**
Unit B

Quiz
Lesson 8



**Measuring
and Describing
Transformations**

For 1 – 5: Describe the transformation that takes each pre-image to its image.



1. Pre-image 1 to image 6. _____
2. Pre-image 2 to image 7. _____
3. Pre-image 3 to image 8. _____
4. Pre-image 4 to image 9. _____
5. Pre-image 5 to image 10. _____

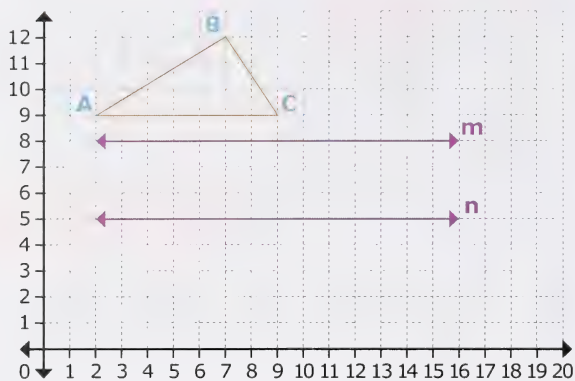
Math **6**
Unit 3

Quiz
Lesson 9

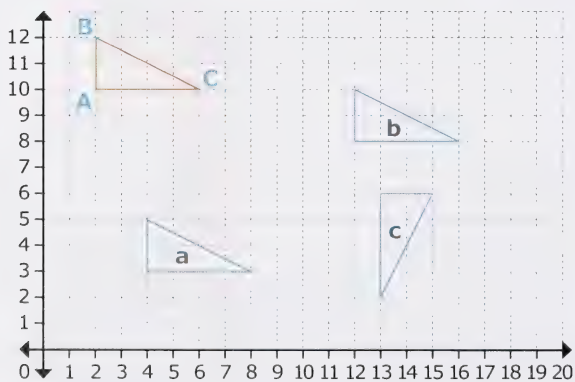


**Combining
Transformations**

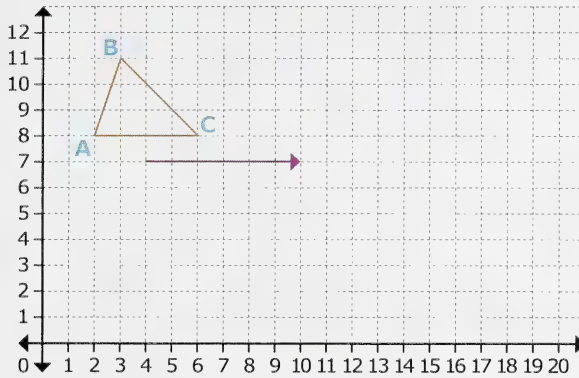
1. Reflect the pre-image in line m followed by a reflection in line n .

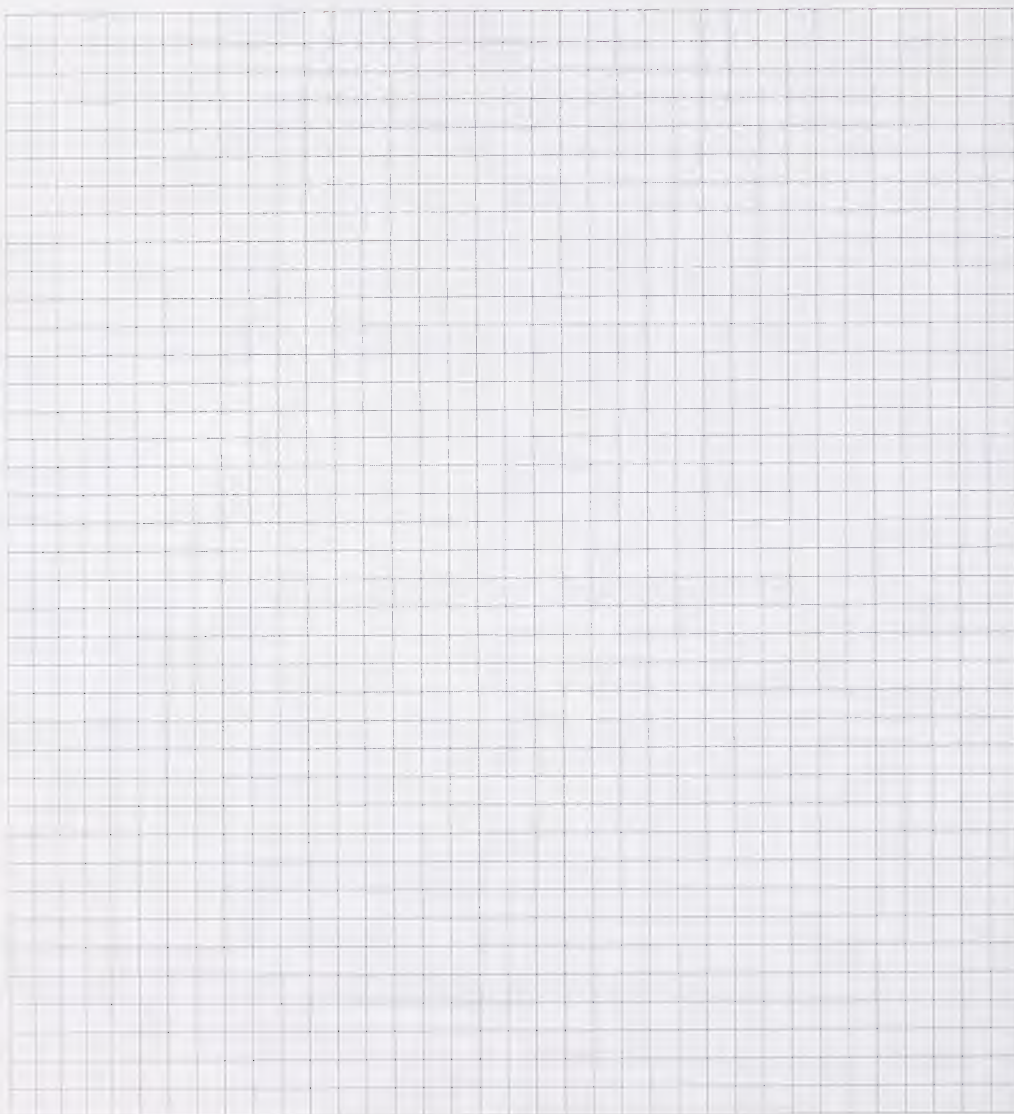


2. Which image is a composition of a rotation and a translation?



3. Perform a glide reflection using the given slide arrow.





Math
Unit 3

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Quiz
Lesson 10



**Transformational
Designs**

1. Which of the following shapes will tessellate?

a.



b.



c.



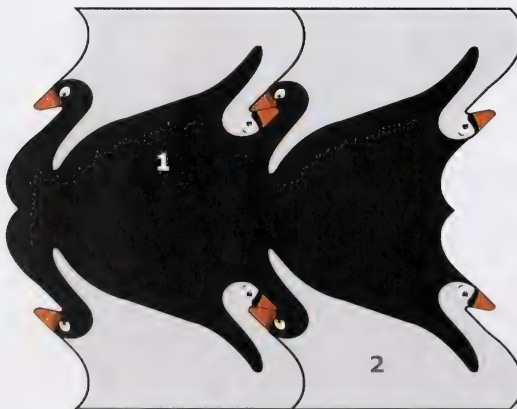
d.



2. Create a design that will tessellate on this square:



3. What type of transformation is performed on Figure 1 to get Figure 2?



Math **6**
Unit B

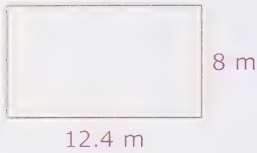
Quiz
Lesson 11



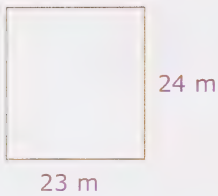
**Perimeter of
Polygons**

For 1 – 5: Find the perimeter or the missing measure of each polygon.

1.



2.



3.



4. rectangle, $l = 18$ cm, $w = 11$ cm

5. rectangle, $l = 20$ m, $P = 84$ m

Math **6**
Unit B

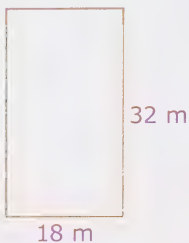
Quiz
Lesson 12



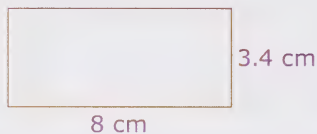
**Area of
Rectangles**

For 1 – 3: Find the area of each rectangle.

1.



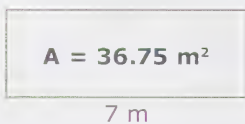
2.



3. length = 12 cm, width = 20 cm

For 4 – 5: Find the measure of the missing side of the rectangles.

4.



5. $A = 900 \text{ cm}^2$, width = 15 cm

Math **6**
Unit 3

Quiz
Lesson 13



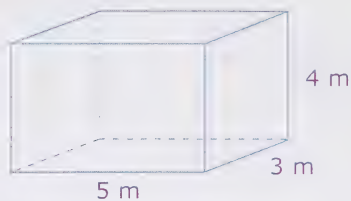
Volume

For 1 - 3: Find the volume of the given figure using the formula $V = l \cdot w \cdot h$.

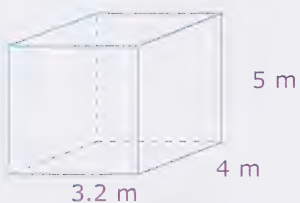
1.



2.



3.



For 4 - 5: Find the missing dimension of the given rectangular prism.

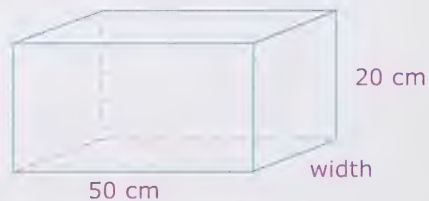
4.

$$V = 21\,000 \text{ m}^3$$



5.

$$V = 15\,000 \text{ cm}^3$$



Math 6 Unit 3

Test Lessons 1 - 13



For 1: Estimate the measure of the given angle.

1. Which of the following angles is approximately 60° ?

a.



b.



c.



d.



For 2 – 4: Classify each angle as acute, obtuse, right, or straight.

2.



3.



4.

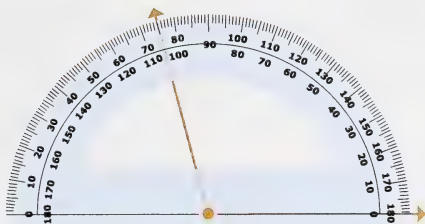


For 5 – 7: What is the measure of each angle?

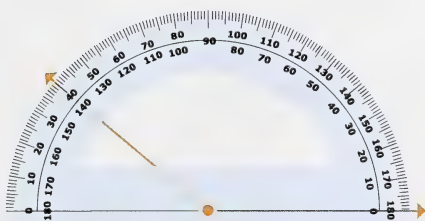
5.



6.

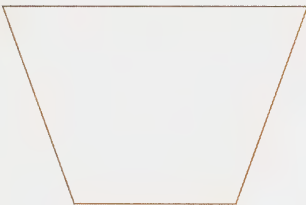


7.

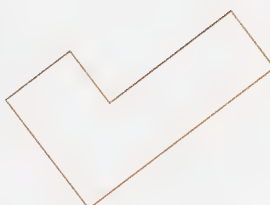


8. Which of the following is NOT a polygon?

a.



b.



c.



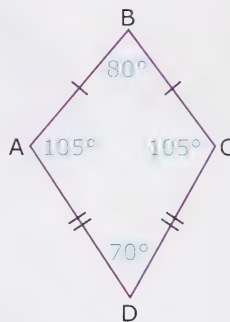
d.



For 9 – 10: Complete each congruence statement using the given figure.

9. $AD \cong$ _____

10. Angle A $\cong$ _____



For 11 – 13: Classify each triangle in two ways.

11. _____



12. _____



13. _____

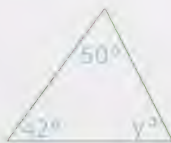


For 14 – 16: Find the missing angle.

14. _____



15. _____



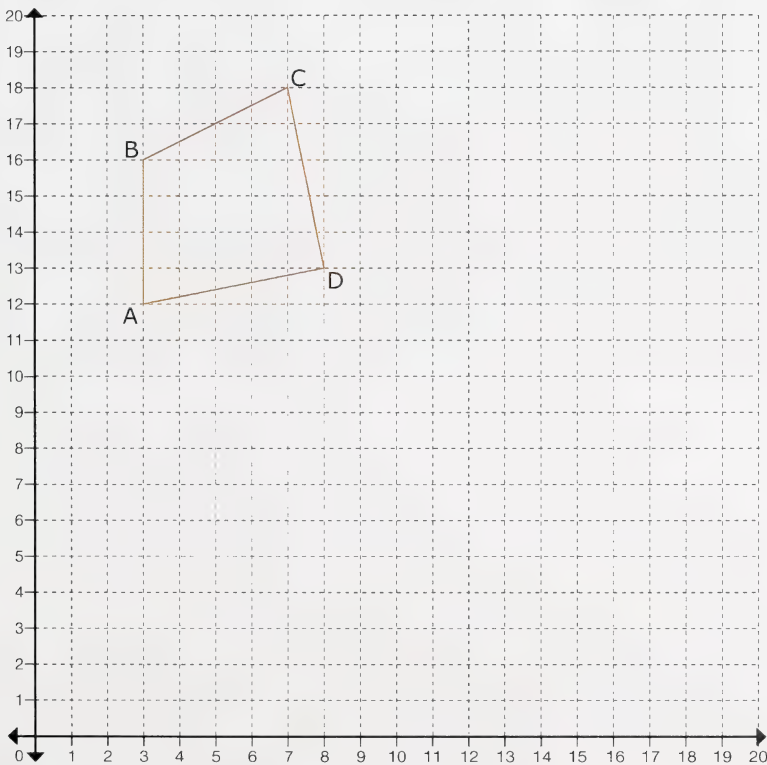
16. _____



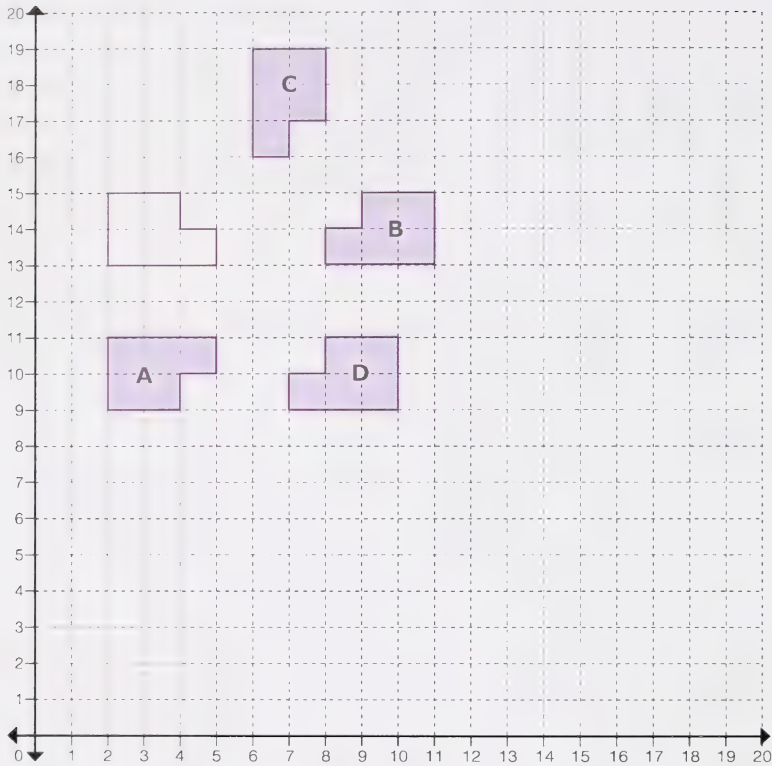
17. Name the congruent sides and angles.



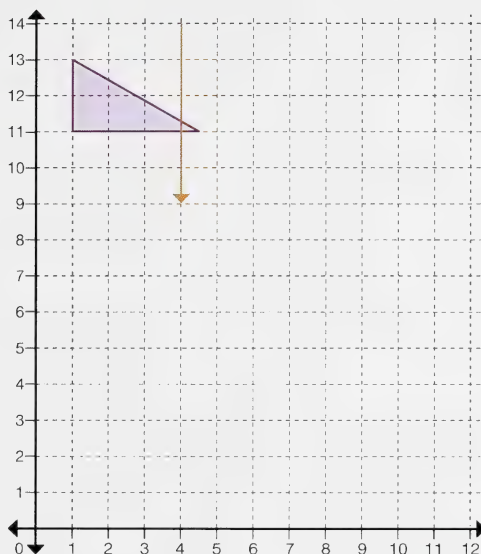
18. Perform a transformation of right 5 units down 4 units for ABCD. Label your image A'B'C'D'.



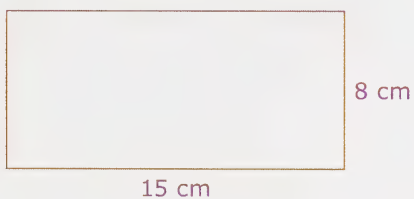
19. Which image is a 90° clockwise rotation of the polygon?



20. Perform a glide reflection using the given glide arrow.



For 21 – 23: Use the given rectangle.



21. Find the perimeter.



Test: Lessons 1-13

22. Find the area.
23. Find the area of the rectangle if you double the width.
24. Find the perimeter of a regular pentagon with a side length of 12 cm.
25. Find the volume of a rectangular prism with the given dimensions:
 $l = 10$ cm, $w = 5$ cm, $h = 8$ cm.

